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1. Which sample contains a total of 9.0×10^{23} atoms?
A) 0.50 mole of HCl B) 0.75 mole of H₂O
C) 1.5 moles of Cu D) 1.5 moles of H₂
2. What is the total number of atoms contained in a 1.00-mole sample of helium?
A) 1.00 atom B) 2.00 atoms
C) 1.20×10^{24} atoms D) 6.02×10^{23} atoms
3. What is the total number of nitrogen atoms in 0.25 mole of NO₂ gas?
A) 1.5×10^{23} B) 6.0×10^{23}
C) 3.0×10^{23} D) 1.2×10^{24}
4. Which quantity of O₂ contains exactly 3.01×10^{23} molecules?
A) 0.250 mole B) 0.500 mole
C) 16.0 moles D) 32.0 moles
5. What is the total number of molecules of hydrogen in 0.25 mole of hydrogen?
A) 6.0×10^{23} B) 4.5×10^{23}
C) 3.0×10^{23} D) 1.5×10^{23}
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